

Application Serial No. 10/534,668
Reply to Office Action of August 28, 2007

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Amendments to the Claims

The listing of claims presented below replaces all prior versions, and listings, of claims in the application.

Listing of claims:

1-28. (cancelled)

29. (currently amended) A hybrid lighting system comprising:

a daylight collection system for generating an output of fluorescent light, the daylight collection system comprising at least one light collector that comprises an optically transmissive material that is doped with dispersed dye molecules which are arranged to absorb incoming light and emit fluorescent light,

~~at least one light collector for generating an output of fluorescent light, the light collector comprising an optically transmissive material that is doped with dispersed dye molecules which are arranged to absorb incoming light and to emit fluorescent light; and~~

at least one electrically powered light emitting device that, in use, supplements the light output of the light collector to providing light of a predetermined spectral characteristic; and

at least one optical light guide arranged to receive fluorescent light from the light collector;

wherein the light output of the daylight collection system light collector and the light from the electrically powered light source are directed separately into the at least one optical light guide, and

wherein the electrically powered light emitting device is arranged to supplement the emitted fluorescence radiation by providing light of at least one particular color such that the addition of the light from the at least one electrically powered light emitting device to the emitted fluorescent light results in light having a predetermined color that is different to the at least one particular color.

30. (cancelled)

31. (currently amended) The hybrid lighting system as claimed in claim [[30]] 29 wherein the predetermined colour is white.

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32. (previously presented) The hybrid lighting system as claimed in claim 29 comprising a light collector sheet that in use emits green fluorescence light and the green fluorescence light is supplemented by red and blue light emitting devices.

33. (previously presented) The hybrid lighting system as claimed in claim 32 wherein the blue light emitting device is arranged to emit approximately 2-20% of the total amount of lumens generated by the system and the red light emitting device is arranged to emit approximately 15-30% of the total amount of lumens generated by the system.

34. (previously presented) The hybrid lighting system as claimed in claim 29 comprising light collector sheets that emit green and red light and in use the green and red fluorescence light is supplemented by light from a blue light emitting device.

35. (previously presented) The hybrid lighting system as claimed in claim 34 wherein the blue light emitting device is arranged to emit approximately 2-20% of the total amount of lumens generated by the system.

36. (previously presented) The hybrid lighting system as claimed in claim 29 comprising an optical cable that is arranged to guide light from the at least one light collector and the at least one electrically powered light emitting device.

37. (previously presented) The hybrid lighting system as claimed in claim 36 wherein one of three colours required for the generation of white light is generated by the electrically powered light source and the optical cable has a cross-sectional area through which, in use, light is guided and that is reduced by approximately 1/3 compared to a lighting system in which all colours for the generation of the white light are generated by light collector sheets.

38. (previously presented) The hybrid lighting system as claimed in claim 36 wherein two of the colours are generated by electrically powered light sources and the optical cable has a cross-sectional area through which, in use, light is guided and

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that is reduced by approximately 2/3 compared to a lighting system in which all colours for the generation of the white light are generated by light collector sheets.

39. (previously presented) The hybrid lighting system as claimed in claim 29 wherein the at least one electrically powered light emitting device is also arranged to supplement for an intensity deficiency of the output.

40. (previously presented) The hybrid lighting system as claimed in claim 39 comprising electrically powered light emitting devices that are arranged for the emission of red, green and blue light.

41. (previously presented) The hybrid lighting system as claimed in claim 29 comprising at least one light guide and wherein the at least one electrically powered light emitting device is coupled to the at least one light guide by means of a prism.

42. (previously presented) The hybrid lighting system as claimed in claim 29 comprising at least one light guide and wherein the at least one electrically powered light emitting device is coupled to the at least one light guide by means of an optical fibre.

43. (previously presented) The hybrid lighting system as claimed in claim 29 comprising at least one light guide and wherein the at least one electrically powered light emitting device is coupled to the at least one light guide by means of a lens.

44. (previously presented) The hybrid lighting system as claimed in claim 29 wherein the at least one electrically powered light emitting device is implanted into the or a respective ones of the light guides.

45. (previously presented) The hybrid lighting system as claimed in claim 29 wherein the at least one electrically powered light emitting device is coupled to a respective light transmissive sheet that is coupled to the at least one respective light guide.

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46. (previously presented) The hybrid lighting system as claimed in claim 29 comprising a luminaire arranged to emit light and wherein the light from the at least one electrically powered light emitting device is mixed within the luminaire with light from the at least one light collector sheet.

47. (previously presented) The hybrid lighting system as claimed in claim 46 in which the at least one light collector sheet is coupled to the luminaire without an intervening separate light guide.

48. (previously presented) The hybrid lighting system as claimed in claim 29 wherein the at least one electrically powered light emitting device is mounted in a luminaire which is used to emit light and to which the at least one light guide is coupled.

49. (previously presented) The hybrid lighting system as claimed in claim 29 wherein the at least one electrically powered light emitting device is mounted adjacent to a luminaire which is used to emit light and to which the at least one light guide is coupled.

50. (previously presented) The hybrid system as claimed in claim 29 wherein the at least one electrically powered light emitting device is powered by a battery.

51. (previously presented) The hybrid system as claimed in claim 29 wherein the at least one electrically powered light emitting device is powered by a solar cell.

52. (previously presented) The hybrid system as claimed in claim 50 wherein the battery is charged by a solar cell.

53. (previously presented) The hybrid lighting system as claimed in claim 29 wherein the output of the at least one electrically powered light emitting device in combination with the output from the at least one light collector is controllable to generate light of controlled colour shades.

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54. (previously presented) The hybrid lighting system as claimed in claim 29 the wherein a property of the output is electronically controlled.

55. (previously presented) The hybrid lighting system as claimed in claim 30 comprising more than one light emitting devices of the at least one particular colour that is in use supplemented.

56. (previously presented) The hybrid lighting system as claimed in claim 29 wherein the at least one light emitting device is a light emitting diodes (LED).

57. (cancelled)